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Application Number	09/404,979
Filing Date	September 22, 1999
First Named Inventor	GOPAL
Art Unit	1636
Examiner Name	T. McKelvey
Attorney Docket Number	20728.101PTUS

(use as many sheets as necessary)

Sheet	1	of	2
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7/8/04

This collection of information is required by 37 CFR 1.87 and 1.88. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PAGE 10/47 * RCVD AT 4/14/2004 5:47:27 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-1/0 * DNIS:8729306 * CSID: * DURATION (mm-ss):13-34

PTO/SB/08b(05-03)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known

Application Number	09/404,979
Filing Date	September 22, 1999
First Named Inventor	GOPAL
Group Art Unit	1636
Examiner Name	T. McKelvey
Attorney Docket Number	020728.0101PTUS

Sheet 2 of 2

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		SC35, accession #Q01130, NCBI database, entered April 1, 1993.	
		Chitnase A, accession #P29022, NCBI database, entered December 1, 1992.	
		Rogot A to Z (1984), Harper Collins Pub.	
		Essentials of Molecular Biology (4 th Ed.) Malachuk, Jones and Bartlett, Eds. (2003).	

Examiner
Signature*T. McKelvey*Date
Considered*7/8/04*

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1460, Alexandria, VA 22313-1460. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1460, Alexandria, VA 22313-1460.

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SHEET 1 of 4

FORM PTO-1449	US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO. 020728.0101PTUS	APPLICATION NO. 09/404,979
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT T.Venkat Gopal	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE September 22, 1999	GROUP 1638

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
<i>DMC</i>	1	6,156,840	10-20-92	Goers et al.	540	145	3-20-89
<i>DMC</i>	2	4,887,973	9-19-89	Goers et al.	424	184.1	9-13-84
<i>DMC</i>	3	5,527,885	6-18-96	Coughlin et al.	534	14	6-30-94
<i>DMC</i>	4	5,585,468	12-17-95	Coughlin et al.	534	14	6-27-94
<i>DMC</i>	5	5,326,856	7-5-94	Coughlin et al.	534	14	4-9-92
<i>DMC</i>	6	5,196,510	3-23-93	Rodwell et al.	530	324	5-7-90
<i>DMC</i>	7	5,047,227	9-10-91	Rodwell et al.	424	1.49	2-4-91
<i>DMC</i>	8	4,671,958	6-9-87	Rodwell et al.	424	1.53	3-9-82
<i>DMC</i>	9	5,449,761	9-12-85	Belinka, Jr et al.	534	10	9-28-83
<i>DMC</i>	10	4,046,722	9-8-77	Rowland	530	382	1-14-76
<i>DMC</i>	11	5,135,736	8-4-92	Anderson et al.	424	1.49	8-15-88
<i>DMC</i>	12	5,759,517	6-2-98	Anderson et al.	424	1.60	6-1-95
<i>DMC</i>	13	6,184,356	2-6-01	Anderson et al.	530	385	4-13-98
<i>DMC</i>	14	5,169,933	12-8-82	Anderson et al.	530	384.3	8-7-89
<i>DMC</i>	15	5,844,089	12-1-98	Hoffman et al.	530	385	5-25-95
<i>DMC</i>	16	5,844,088	12-1-98	Hoffman et al.	530	385	5-19-95
<i>DMC</i>	17	5,717,058	2-10-98	Matthews et al.	530	328	2-18-94
<i>DMC</i>	18	5,171,563	12-15-92	Abrams et al.	424	1.49	2-10-92
<i>DMC</i>	19	5,084,441	1-28-92	Shaw et al.	544	2	8-18-88
<i>DMC</i>	20	6,182,107	1-26-93	Friden	424	178.1	3-6-92
<i>DMC</i>	21	4,950,599	8-21-90	Berling	435	436	1-29-87
<i>DMC</i>	22	5,229,490	7-20-93	Tam et al.	530	324	12-20-90
<i>DMC</i>	23	5,648,248	7-15-97	Zenke et al.	435	467	1-25-95
<i>DMC</i>	24	5,670,483	9-23-97	Zhang et al.	514	14	11-30-94
<i>DMC</i>	25	5,672,479	9-30-97	Johnson et al.	435	7.1	6-7-95
<i>DMC</i>	26	5,893,531	12-2-97	Chiorini et al.	435	325	11-24-93
<i>DMC</i>	27	5,773,227	6-30-98	Kuhn	435	7.21	6-23-93
<i>DMC</i>	28	5,807,748	9-15-98	Lin et al.	435	375	6-13-94
<i>DMC</i>	29	5,837,533	11-17-98	Boutin	435	320.1	9-28-94
<i>DMC</i>	30	5,840,874	11-24-98	Yatvin et al.	540	302	8-1-98
<i>DMC</i>	31	5,847,121	12-8-98	Yau	540	474	12-13-95
<i>DMC</i>	32	5,945,100	8-31-99	Fick	424	93.21	7-31-98
<i>DMC</i>	33	6,380,373	4-30-02	O'Malley et al.	536	23.5	8-21-98
<i>DMC</i>	34	6,423,693	6-23-02	Schwartz, et al.	514	44	7-24-98
<i>DMC</i>	35	6,641,662	6-24-97	Debs et al.	435	488	3-10-93
<i>DMC</i>	36	5,071,651	12-10-91	Sabara et al.	424	188.1	3-5-90
<i>DMC</i>	37	4,948,778	8-7-90	Ladner et al.	435	69.3	1-19-88
<i>DMC</i>	38	4,904,582	2-27-90	Tullis et al.	435	8	6-11-87
<i>DMC</i>	39	4,870,023	9-26-89	Fraser et al.	435	235.1	2-8-88

EXAMINER

Sanya M. Kelsey

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SHEET 4 of 4

FORM PTO-1449

US DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.
020728.0101PTUSAPPLICATION NO.
09/404,979INFORMATION DISCLOSURE STATEMENT
BY APPLICANTAPPLICANT
T.Venkai Gopal

(USE SEVERAL SHEETS IF NECESSARY)

FILING DATE
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1638

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
<i>me</i>	5,674,835	10-7-97	ANDROPHY ET AL.	614	2	6-6-95
	5,637,471	8-10-97	ARYAVANIS-TSAKONAS ET AL.	435	25	8-10-97
	5,689,337	2-9-99	CRABTREE ET AL.	435	372.3	2-14-95
	5,955,647	9-21-99	FITCHEN ET AL.	800	268	11-18-96
	5,780,444	7-14-98	KAHNE	614	26	4-20-95
	5,795,870	8-18-98	KAHNE	614	26	11-7-94
	5,837,481	8-10-97	LEDBETTER ET AL.	435	60.6	9-13-93
	5,851,828	12-22-98	MARASCO ET AL.	435	328	3-30-95
	6,004,940	12-21-99	MARASCO ET AL.	614	44	12-8-94
	5,865,371	5-9-95	MARASCO ET AL.	435	7.1	5-9-95
	6,262,034	7-17-01	MATHIOWITZ ET AL.	614	44	11-25-97
	6,620,617	9-16-03	MATHIOWITZ ET AL.	435	325	4-23-01
	5,668,255	9-16-97	MURPHY	530	350	8-4-93
	5,763,209	8-9-98	SUKHATME	435	69.1	3-31-93
	5,773,583	6-30-98	SUKHATME	500	358	6-6-95
	5,583,020	12-10-98	SULLIVAN	435	458	11-19-93
<i>me</i>	5,804,804	9-8-98	FRANKEL ET AL.	530	324	5-25-95
	5,747,841	5-5-98	FRANKEL ET AL.	530	308	5-25-95
	5,674,980	10-7-97	FRANKEL ET AL.	530	350	5-25-95
	5,670,617	8-23-97	FRANKEL ET AL.	530	308	5-25-95
<i>me</i>	5,674,703	10-7-97	WOO ET AL.	435	69.1	12-2-93
	6,088,624	5-23-00	WOO ET AL.	614	44	2-15-98
	5,750,387	5-12-98	CHAN	435	69.1	11-8-93
	5,756,264	5-26-98	SCHWARTZ ET AL.	424	83.2	3-9-94
	5,770,580	5-30-95	LEDLEY	614	44	5-30-95
	5,792,751	8-11-98	LEDLEY	614	44	1-21-94
	5,798,209	8-25-98	CHAN	435	6	5-28-95
	5,825,564	7-20-99	SCHWARTZ ET AL.	435	326	6-7-95
	5,958,784	9-28-99	ROOP ET AL.	435	320.7	11-1-93
	6,416,998	6-9-02	O'MALLEY ET AL.	435	325	6-7-95
<i>me</i>	6,599,704	2-4-97	THOMPSON ET AL.	435	325	5-5-95
	5,610,052	4-11-97	THOMPSON ET AL.	435	366	8-26-92
	5,618,490	4-1-97	SULLIVAN ET AL.	435	366	1-19-93
	5,622,854	4-22-97	DRAPER	435	366	2-7-94
	5,639,655	6-17-97	THOMPSON ET AL.	435	366	4-25-94
	5,750,390	5-12-98	THOMPSON ET AL.	435	195	8-26-92
	5,801,158	9-1-98	THOMPSON ET AL.	514	44	12-23-96
	5,989,906	11-23-99	THOMPSON ET AL.	435	325	2-7-94
<i>me</i>	6,022,988	2-8-00	GUSTAVSON ET AL.	640	474	11-22-93
	5,630,996	5-20-97	RENO ET AL.	424	1.49	8-16-93
	5,608,060	3-4-97	AXWORTHY ET AL.	540	474	2-21-95
	5,678,287	11-28-96	THEODORE ET AL.	424	1.49	11-23-93
	5,541,287	7-30-96	YAU ET AL.	530	347	7-30-88

EXAMINER

Feng a McKelvey

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FORM PTO-1449

US DEPARTMENT OF COMMERCE
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T.Venkat Gopal

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FILING DATE
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1836

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
<i>YMC</i>	1	8,217,860	4-17-01	Woo et al.	424	80.2	9-24-99
<i>YMC</i>	2	5,631,236	5-20-97	Woo et al.	314	44	8-26-93
<i>YMC</i>	3	6,410,721	6-25-02	Hunt et al.	536	24.1	1-5-99
<i>YMC</i>	4	5,859,226	1-12-99	Hunt et al.	536	24.1	7-27-94
<i>YMC</i>	5	6,555,868	4-29-03	Usman et al.	436	23.1	1-8-02
<i>YMC</i>	6	6,362,323	4-28-02	Usman et al.	436	23.1	7-31-00
<i>YMC</i>	7	6,140,491	10-31-00	Usman et al.	436	24.5	6-2-95
<i>YMC</i>	8	6,117,657	9-12-00	Usman et al.	436	91.31	10-29-98
<i>YMC</i>	9	5,891,683	4-6-99	Usman et al.	436	91.31	12-23-94
<i>YMC</i>	10	5,083,874	11-4-97	Kool et al.	436	6	3-30-95
<i>YMC</i>	11	5,614,548	5-7-96	Kool et al.	436	6	9-1-93
<i>YMC</i>	12	5,808,036	9-15-98	Kool et al.	536	24.3	9-15-98
<i>YMC</i>	13	5,872,105	2-18-99	Kool et al.	514	44	6-6-95
<i>YMC</i>	14	6,627,615	8-30-03	Debs et al.	514	44	8-11-98
<i>YMC</i>	15	6,468,798	10-22-02	Debs et al.	436	456	1-14-98
<i>YMC</i>	16	5,756,353	5-28-98	Debs et al.	514	44	6-7-95
<i>YMC</i>	17	5,858,784	1-12-98	Debs et al.	436	375	11-6-92
<i>YMC</i>	18	5,827,703	10-27-703	Debs et al.	514	44	5-19-94
<i>YMC</i>	19	5,714,168	2-3-98	Tomalla et al.	424	486	3-7-95
<i>YMC</i>	20	5,962,427	10-5-99	Goldstein et al.	514	44	4-12-96
<i>YMC</i>	21	5,639,275	6-17-97	Baetge et al.	504	891.1	5-25-95
<i>YMC</i>	22	5,908,623	6-1-99	Baetge et al.	424	99.21	5-25-95
<i>YMC</i>	23	5,635,380	6-3-97	Naftilan et al.	495	456	1-18-94
<i>YMC</i>	24	5,631,237	5-20-97	Dzau et al.	514	44	5-10-94
<i>YMC</i>	25	5,821,234	10-13-98	Dzau et al.	514	44	8-20-93
<i>YMC</i>	26	6,710,035	3-23-04	Felgner et al.	514	44	12-2-99
<i>YMC</i>	27	6,020,202	2-1-00	Jessie	436	458	11-18-98
<i>YMC</i>	28	4,897,355	1-30-90	Eppstein	424	456	10-28-87
<i>YMC</i>	29	6,310,034	10-30-01	Woychik et al.	514	2	3-3-98
<i>YMC</i>	30	6,514,747	2-4-03	Woychik et al.	436	252.3	2-12-01
<i>YMC</i>	31	6,303,582	10-16-01	Eljamal et al.	514	44	10-26-99
<i>YMC</i>	32	6,133,024	10-17-00	Helene et al.	436	320.1	5-7-98
<i>YMC</i>	33	6,030,822	2-29-00	Lechiner et al.	436	194	6-2-95
<i>YMC</i>	34	6,578,972	8-17-03	Lechiner et al.	530	388.29	9-9-99
<i>YMC</i>	35	RE37592	12-31-02	Schwegghoffer et al.	638	23.1	8-15-00
<i>YMC</i>	36	6,010,908	1-4-00	Gruenert et al.	436	463	6-7-95
<i>YMC</i>	37	6,628,631	3-4-03	Cook et al.	536	23.1	6-16-98
<i>YMC</i>	38	6,395,492	5-28-02	Manoharan et al.	436	6	8-7-00
<i>YMC</i>	39	6,414,112	7-2-02	Buchardt et al.	530	980	7-24-96
<i>YMC</i>	40	6,413,949	7-2-02	Kozak et al.	514	143	8-7-95
<i>YMC</i>	41	6,355,629	3-12-02	Kozak et al.	514	143	2-6-01
<i>YMC</i>	42	6,406,855	6-18-02	Patten et al.	436	6	11-22-00
<i>YMC</i>	43	6,399,861	6-4-02	Anderson, et al.	888	320.1	5-23-95

EXAMINER

Yung-Ming Hsiao

DATE CONSIDERED

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<i>Ymc</i>	44	6,365,717	4-2-02	Middeldorp, et al.	530	380.3	12-4-98
	44	6,312,953	11-8-01	Mayer, Jr., et al.	435	375	6-27-94
	45	6,136,601	10-24-00	Mayer, Jr., et al.	435	375	3-26-97
	46	6,287,883	9-11-01	Hodgson et al.	435	455	11-9-95
	47	6,281,411	8-28-01	Adams et al.	800	288	1-19-96
	48	6,255,113	7-3-01	Zarling et al.	435	455	2-8-95
	49	6,238,914	5-29-01	Boyce	435	320.1	11-19-98
	50	6,190,380	2-20-01	Abela	606	28	12-22-98
	51	6,171,859	1-9-01	Herrnstadt et al.	435	375	3-30-95
	52	6,127,114	10-3-00	Haseloff et al.	435	6	5-17-95
	53	6,130,366	10-10-00	Herrera-Estrella, et al.	800	276	12-3-97
	54	6,037,526	3-14-00	Grimsley et al.	800	300	10-26-96
	55	6,022,950	2-8-00	Murphy et al.	530	350	6-7-95
	56	5,854,006	8-5-97	Fernandez et al.	424	489	8-27-94
	57	5,977,307	11-2-99	Friden et al.	530	360	2-13-96
	58	5,972,704	10-26-99	Draper et al.	435	375	8-13-97
	59	5,972,699	10-26-99	Draper et al.	435	320.1	4-8-97
	60	5,958,412	9-28-99	Weht et al.	424	478.1	6-4-97
	61	5,886,264	11-11-97	Gaynor et al.	435	69.1	11-29-94
	62	5,607,891	3-4-97	Hale et al.	424	449	3-4-97
	63	5,521,290	5-28-98	Sivam et al.	530	397.5	11-21-94
	64	5,503,833	4-2-96	Redmond et al.	424	466.14	9-6-94
	65	5,420,105	5-30-95	Gustavson et al.	514	2	7-26-93
	66	5,283,342	2-1-94	Gustavson et al.	548	304.1	6-8-92

EXAMINER
INITIAL

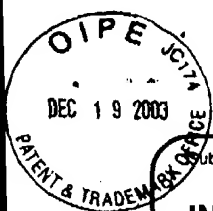
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

EXAMINER

DATE CONSIDERED

*Sony A. M. K. S.**7/8/04*

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PTO/SB/08a (05-03)

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Complete If Known

Application Number	09/404,979
Filing Date	September 22, 1999
First Named Inventor	V. GOPAL
Art Unit	1636
Examiner Name	T. McKelvey
Attorney Docket Number	20728.101

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
↓		US-5,674,977	10/07/97	GARIÉPY	
		US- 5,652,122	07/29/97	FRANKEL et al.	
		US- 5,643,643	12/01/98	RATNER	
		US- 6,177,554	01/23/01	WOO et al.	
		US- 6,150,168	11/21/00	WOO et al.	
		US- 6,033,884	03/07/00	WOO et al.	
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FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

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Signature

T. McKelvey

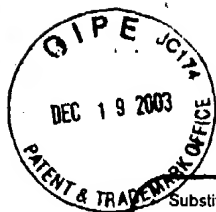
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**INFORMATION DISCLOSURE
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Sheet

of

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Filing Date

First Named Inventor

Group Art Unit

Examiner Name

Attorney Docket Number

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		US Application No. 07/855,380, filed March 20, 1992.	
		US Application No. 08/458,217, filed June 5, 1995.	
		US Application No. 08/458,219, filed June 5, 1995.	
		US Application No. 08/458,269, filed June 5, 1995.	

Examiner
Signature*Sergio McElroy*Date
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First Named Inventor	GOPAL
Art Unit	1636
Examiner Name	T. McKelvey
Attorney Docket Number	20728.101PTUS

U.S. PATENT DOCUMENTS

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		Number - Kind Code ² (if known)			
JMC ↓		US- 5,972,900	06-03-1996	Ferkol, Jr.	
		US- 5,593,866	12-20-1995	Hancock et al.	
		US- 5,674,704	05-06-1994	Goodwin et al.	
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Application Number	09/404,979
Filing Date	September 22, 1999
First Named Inventor	GOPAL
Group Art Unit	1636
Examiner Name	T. McKelvey
Attorney Docket Number	020728.0101PTUS

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
Jme		SC35, accession #Q01130, NCBI database, entered April 1, 1993.	
		Chitinase A, accession #P29022, NCBI database, entered December 1, 1992.	
		Rogel A to Z (1994). Harper Collins Pub.	
		Essentials of Molecular Biology (4 th Ed.) Malacinski, Jones and Barlett, Eds. (2003).	

Examiner
Signature

T. McKelvey

Date
Considered

7/8/04

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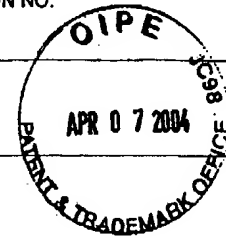
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PATENT AND TRADEMARK OFFICEATTY DOCKET NO.
020728.0101PTUSAPPLICATION NO.
09/404,979INFORMATION DISCLOSURE STATEMENT
BY APPLICANTAPPLICANT
T.Venkat Gopal

(USE SEVERAL SHEETS IF NECESSARY)

FILING DATE
September 22, 1999GROUP
1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1	6,217,860	4-17-01	Woo et al.	424	93.2	9-24-99
	2	5,631,236	5-20-97	Woo et al.	514	44	8-26-93
	3	6,410,721	6-25-02	Hunt et al.	536	24.1	1-5-99
	4	5,859,226	1-12-99	Hunt et al.	536	24.1	7-27-94
	5	6,555,668	4-29-03	Usman et al.	536	23.1	1-8-02
	6	6,362,323	4-26-02	Usman et al.	536	23.1	7-31-00
	7	6,140,491	10-31-00	Usman et al.	536	24.5	6-2-95
	8	6,117,657	9-12-00	Usman et al.	435	91.31	10-29-98
	9	5,891,683	4-6-99	Usman et al.	435	91.31	12-23-94
	10	5,683,874	11-4-97	Kool et al.	435	6	3-30-95
	11	5,514,546	5-7-96	Kool et al.	435	6	9-1-93
	12	5,808,036	9-15-98	Kool et al.	536	24.3	9-15-98
	13	5,872,105	2-16-99	Kool et al.	514	44	6-6-95
	14	6,627,615	9-30-03	Debs et al.	514	44	8-11-98
	15	6,468,798	10-22-02	Debs et al.	435	458	1-14-98
	16	5,756,353	5-26-98	Debs et al.	514	44	6-7-95
	17	5,858,784	1-12-99	Debs et al.	435	375	11-5-92
	18	5,827,703	10-27-703	Debs et al.	514	44	5-19-94
	19	5,714,166	2-3-98	Tomalia et al.	424	486	3-7-95
	20	5,962,427	10-5-99	Goldstein et al.	514	44	4-12-96
	21	5,639,275	6-17-97	Baetge et al.	604	891.1	5-25-95
	22	5,908,623	6-1-99	Baetge et al.	424	93.21	5-25-95
	23	5,635,380	6-3-97	Naffilan et al.	435	456	1-18-94
	24	5,631,237	5-20-97	Dzau et al.	514	44	5-10-94
	25	5,821,234	10-13-98	Dzau et al.	514	44	8-20-93
	26	6,710,035	3-23-04	Felgner et al.	514	44	12-2-99
	27	6,020,202	2-1-00	Jessee	435	458	11-18-96
	28	4,897,355	1-30-90	Eppstein	424	450	10-29-87
	29	6,310,034	10-30-01	Woychik et al.	514	2	3-3-98
	30	6,514,747	2-4-03	Woychik et al.	435	252.3	2-12-01
	31	6,303,582	10-16-01	Eljamal, et al.	514	44	10-26-99
	32	6,133,024	10-17-00	Helene et al.	435	320.1	5-7-98
	33	6,030,822	2-29-00	Lechiner et al.	435	194	6-2-95
	34	6,579,972	6-17-03	Lechiner et al.	530	388.26	9-9-99
	35	RE37592	12-31-02	Schweighoffer et al.	536	23.1	8-15-00
	36	6,010,908	1-4-00	Gruenert et al.	435	463	6-7-95
	37	6,528,631	3-4-03	Cook et al.	536	23.1	6-16-98
	38	6,395,482	5-28-02	Manoharan et al.	435	6	8-7-00
	39	6,414,112	7-2-02	Buchardt, et al.	530	300	7-24-96
	40	6,113,949	7-2-02	Kozak et al.	514	143	6-7-95
	41	6,355,629	3-12-02	Kozak et al.	514	143	2-6-01
	42	6,406,855	6-18-02	Patten et al.	435	6	11-22-00
	43	6,399,861	6-4-02	Anderson, et al.	800	320.1	5-23-95

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